

# Sequence Listing

<110> Patricia Billing-Medel  
Maurice Cohen  
Tracey L. Colpitts  
Paula N. Friedman  
Julian Gordon  
Edward N. Granados  
Steven C. Hodges  
Michael R. Klass  
Jon D. Kratochvil  
Lisa Roberts-Rapp  
John C. Russell  
Stephen D. Stroupe

<120> Reagents and Methods Useful for Detecting Diseases of the Breast

<130> 6193.US.P1

<140> US 09/193,538

<141> 1998-11-17

<150> US 08/971,772

<151> 1997-11-17

<160> 23

<170> FastSEQ for Windows Version 3.0

<210> 1

<211> 288

<212> DNA

<213> Homo sapiens

<400> 1

agagtggcct	aggacagctc	ctctcctgcc	agagctaggg	aggcgccgaa	gtagccgcat	60
ggccccgtca	gaagacccca	gggactggag	agccaacctc	aaaggcacca	tccgtgagac	120
aggcctggag	accagctccg	gtgggaagct	ggctggccat	cagaagaccg	tccccacggc	180
tcacctgact	tttgttattg	actgcaccca	cggaagcag	ctctccctgg	cagcaaccgc	240
atcaccaccc	caagccccca	gtcccaatcg	agggttgta	ccccacca		288

<210> 2

<211> 250

<212> DNA

<213> Homo sapiens

<400> 2

gggactggag	agccaacctc	aaaggcacca	tccgtgagac	aggcctggag	accagctccg	60
gtgggaagct	ggctggccat	cagaagaccg	tccccacggc	tcacctgact	tttgttattg	120
actgcaccca	cggaagcag	ctctccctgg	cagcaaccgc	atcaccaccc	caagccccca	180
gtcccaatcg	agggttgta	acccaccaa	tgaagaccta	catcgtgttc	tgtggggaaa	240
actgccccca						250

<210> 3

<211> 256

<212> DNA

<213> Homo sapiens

<400> 3

ctgtggggaa	aactggcccc	atctgactcg	ggtagacccc	atgggtgggg	gatgccttgc	60
ccaggccagg	gccaccctgc	cgtctgcag	agggctctgt	gcctcagctt	ccttcccagt	120
cagcccgttc	tgccccagg	aggttcccg	ggctaagggg	aaaccctga	aggctgcgcc	180
tgtgaggtct	tcaacttggg	gaacagtcaa	ggactcactg	aaagccctct	cctcttgtgt	240
ctgtgggcag	gccgat					256



<210> 4  
 <211> 256  
 <212> DNA  
 <213> Homo sapiens

<400> 4  
 tttattttatt gggttacttt atttattcag ggtgggttcc ctctctcccca aaaataccag 60  
 ctccaggaaa accatggtat ctccccagca ctttgcaggg cctggcatgt ggaagatgta 120  
 ccagtaatat ttgctgtatg aatgaatgag tctcttcattg tgcagggtgac ttatcctgcc 180  
 tctgccactc gacggatgtt tcagatgccc cttagcggat ctaatgatgt ttccttggct 240  
 caagcacaaa agactc 256

<210> 5  
 <211> 133  
 <212> DNA  
 <213> Homo sapiens

<400> 5  
 gctgttcaaa atcatcttct ttattttattg ggttacttta tttattcagg gtgggttccc 60  
 tccaccccaa aaataccagc tccaggaaaa ccatggtatc tccccagcac tttgcagggg 120  
 ctggcatgtg gaa 133

<210> 6  
 <211> 910  
 <212> DNA  
 <213> Homo sapiens

<400> 6  
 agagtggcct aggacagctc ctctcctgcc agagctaggc aggcgcgcgaa gtagccgcac 60  
 ggccccgtca gaagacccca gggactggag agccaacctc aaaggcacca tccgtgagac 120  
 aggcctggag accagctccg gtgggaagct ggctggccat cagaagaccg tccccacggc 180  
 tcacctgact tttgttattg actgcaccca cgggaagcag ctctccctgg cagcaaccgc 240  
 atcaccaccc caagccccca gtcccaatcg agggcttgct accccaccaa tgaagacct 300  
 catcgtgttc tgtggggaaa actggcccca tcttactcgg gtgacccca tgggtggggg 360  
 atgccttgcc caggccaggg ccaccctgcc gctctgcaga gggctctgtg cctcagcttc 420  
 ctccccagtc agcccgctct gccccagga ggttcccag gctaagggga aacccttgaa 480  
 ggctgcgcct gtgaggtctt caacttgggg aacagtcaag gactcactga aagccctctc 540  
 ctcttgtgtc tgtgggcagg ccgattagct ggaagggccg ggctctgatg cccagaggct 600  
 gcaattccca gggcctggcc ctgcttcccc agctaagcag gagtcttttg tgcttgagcc 660  
 aaggaaacat cattagatcc gctaaggggc atctgaaaca tccgtcgagt ggcagaggca 720  
 ggataagtca cctgcacatg aagagactca ttcattcata cagcaaatat tactgggtaca 780  
 tcttccacat gccaggccct gcaaagtgtc ggggagatac catgggtttc ctggagctgg 840  
 tatttttggg gtggagggaa cccaccctga ataaataaag taaccaata aataaagaag 900  
 atgattttga 910

<210> 7  
 <211> 915  
 <212> DNA  
 <213> Homo sapiens

<400> 7  
 agagtggcct aggacagctc ctctcctgcc agagctaggc aggcgcgcgaa gtagccgcac 60  
 ggccccgtca gaagacccca gggactggag agccaacctc aaaggcacca tccgtgagac 120  
 aggcctggag accagctccg gtgggaagct ggctggccat cagaagaccg tccccacggc 180  
 tcacctgact tttgttattg actgcaccca cgggaagcag ctctccctgg cagcaaccgc 240  
 atcaccaccc caagccccca gtcccaatcg agggcttgct accccaccaa tgaagacct 300  
 catcgtgttc tgtggggaaa actggcccca tctkactcgg gtgacccca tgggtggggg 360  
 atgccttgcc caggccaggg ccaccctgcc gctctgcaga gggctctgtg cctcagcttc 420  
 ctccccagtc agcccgctct gccccagga ggttcccag gctaagggga aacccttgaa 480  
 ggctgcgcct gtgaggtctt caacttgggg aacagtcaag gactcactga aagccctctc 540  
 ctcttgtgtc tgtgggcagg ccgattagct ggaagggccg ggctctgatg cccagaggct 600  
 gcaattccca gggcctggcc ctgcttcccc agctaagcag gagtcttttg tgcttgagcc 660  
 aaggaaacat cattagatcc gctaaggggc atctgaaaca tccgtcgagt ggcagaggca 720  
 ggataagtca cctgcacatg aagagactca ttcattcata cagcaaatat tactgggtaca 780  
 tcttccacat gccaggccct gcaaagtgtc ggggagatac catgggtttc ctggagctgg 840  
 tatttttggg gtggagggaa cccaccctga ataaataaag taaccaata aataaagaag 900  
 atgattttga acagc 915



<210> 8  
 <211> 68  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Restriction site  
  
 <400> 8  
 agctcgggaat tccgagcttg gatcctctag agcggccgcc gactagtgag ctcgtcgacc 60  
 cgggaatt 68  
  
 <210> 9  
 <211> 68  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Restriction site  
  
 <400> 9  
 aattaattcc cgggtcgacg agtcactag tcggcggccg ctctagagga tccaagctcg 60  
 gaattccg 68  
  
 <210> 10  
 <211> 24  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Universal primer  
  
 <400> 10  
 agcggataac aatttcacac agga 24  
  
 <210> 11  
 <211> 18  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Universal primer  
  
 <400> 11  
 tgtaaaacga cggccagt 18  
  
 <210> 12  
 <211> 20  
 <212> DNA  
 <213> Homo sapiens  
  
 <400> 12  
 cccaccaa gaagacctac 20  
  
 <210> 13  
 <211> 20  
 <212> DNA  
 <213> Homo sapiens  
  
 <400> 13  
 agaggagagg gctttcagt 20  
  
 <210> 14  
 <211> 20  
 <212> DNA  
 <213> Homo sapiens



<400> 14  
ccccacagaa cacgatgtag

20

<210> 15  
<211> 22  
<212> DNA  
<213> Homo sapiens

<400> 15  
ttgtcacccc accaatgaag ac

22

<210> 16  
<211> 22  
<212> DNA  
<213> Homo sapiens

<400> 16  
tggtatctcc ccagcacttt gc

22

<210> 17  
<211> 188  
<212> PRT  
<213> Homo sapiens

<400> 17  
Glu Trp Pro Arg Thr Ala Pro Leu Leu Pro Glu Leu Gly Arg Arg Arg  
1 5 10 15  
Ser Ser Arg Met Ala Pro Ser Glu Asp Pro Arg Asp Trp Arg Ala Asn  
20 25 30  
Leu Lys Gly Thr Ile Arg Glu Thr Gly Leu Glu Thr Ser Ser Gly Gly  
35 40 45  
Lys Leu Ala Gly His Gln Lys Thr Val Pro Thr Ala His Leu Thr Phe  
50 55 60  
Val Ile Asp Cys Thr His Gly Lys Gln Leu Ser Leu Ala Ala Thr Ala  
65 70 75 80  
Ser Pro Pro Gln Ala Pro Ser Pro Asn Arg Gly Leu Val Thr Pro Pro  
85 90 95  
Met Lys Thr Tyr Ile Val Phe Cys Gly Glu Asn Trp Pro His Leu Thr  
100 105 110  
Arg Val Thr Pro Met Gly Gly Gly Cys Leu Ala Gln Ala Arg Ala Thr  
115 120 125  
Leu Pro Leu Cys Arg Gly Ser Val Ala Ser Ala Ser Phe Pro Val Ser  
130 135 140  
Pro Leu Cys Pro Gln Glu Val Pro Glu Ala Lys Gly Lys Pro Val Lys  
145 150 155 160  
Ala Ala Pro Val Arg Ser Ser Thr Trp Gly Thr Val Lys Asp Ser Leu  
165 170 175  
Lys Ala Leu Ser Ser Cys Val Cys Gly Gln Ala Asp  
180 185

<210> 18  
<211> 21  
<212> PRT  
<213> Homo sapiens

<400> 18  
Arg Ser Ser Arg Met Ala Pro Ser Glu Asp Pro Arg Asp Trp Arg Ala  
1 5 10 15  
Asn Leu Lys Gly Thr  
20

<210> 19  
<211> 19  
<212> PRT  
<213> Homo sapiens



<400> 19  
Met Gly Gly Gly Cys Leu Ala Gln Ala Arg Ala Thr Leu Pro Leu Cys  
1 5 10 15  
Arg Gly Ser

<210> 20  
<211> 35  
<212> PRT  
<213> Homo sapiens

<400> 20  
Leu Cys Pro Gln Glu Val Pro Glu Ala Lys Gly Lys Pro Val Lys Ala  
1 5 10 15  
Ala Pro Val Arg Ser Ser Thr Trp Gly Thr Val Lys Asp Ser Leu Lys  
20 25 30  
Ala Leu Ser  
35

<210> 21  
<211> 19  
<212> PRT  
<213> Homo sapiens

<400> 21  
Arg Glu Thr Gly Leu Glu Thr Ser Ser Gly Gly Lys Leu Ala Gly His  
1 5 10 15  
Gln Lys Thr

<210> 22  
<211> 8  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Affinity purification system recognition site

<400> 22  
Asp Tyr Lys Asp Asp Asp Asp Lys  
1 5

<210> 23  
<211> 21  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Affinity purification system recognition site

<400> 23  
Glu Gln Lys Leu Ile Ser Glu Glu Asp Leu Asn Met His Thr Glu His  
1 5 10 15  
His His His His His  
20